



# Launch Mission Execution Forecast

**Mission:** SpaceX Falcon 9 Starlink-L9

**Issued:** 10 Jul 2020 / 0830L (1230Z)

**Valid:** 11 Jul 2020 / 1049 – 1100L (1449 – 1500Z)



**Forecast Discussion:** A surface trough is extending southward along the US east coast through Florida in the wake of Tropical Storm Fay, which is currently centered off the Mid-Atlantic coast. Both the surface and mid-level troughs will suppress the Atlantic ridge well to our south, bringing continued offshore flow, which favors showers and storms on the eastern half of the peninsula. This pattern will persist into tomorrow, and plentiful moisture will allow showers and storms to develop in the late morning and early afternoon across Central Florida. While the bulk of this activity is still more likely in the afternoon, some showers and storms near the Spaceport cannot be ruled out during the launch window due to the surface trough and weak impulses aloft. Because of this, the primary concerns are the Cumulus Cloud Rule and the Surface Electric Field Rule.

Launch Day	Probability of Violating Weather Constraints							
	40%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Iso Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	83°F / 75%	Cumulus	Scattered	2,500	10,000	Booster Recovery Weather:	Low
Liftoff Winds (200'):	260° 10 - 15 mph	Cirrostratus	Scattered	25,000	28,000	Solar Activity:	Low	
<b>Note:</b> The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.								
Next Forecast Will Be Issued		As required						